CSS Zoology Paper 2025



FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION-2025 FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT

Rott Number

ZOOLOGY

TIME ALLOWED: THREE HOURS		(PART-I MCQs) MAXIMUM MARKS: 20				
PART-I (MCQs) : MAXIMUM 30 MINUTES			(PART-II) MAXIMUM MARKS:			
V	OTE: (i) First attempt PART-I (MCQs) on separate	OMR	Answ	er Sheet which	shall be	taken back after
	30 minutes.					
	(ii) Overwriting/cutting of the options/answ	ers wil	ll not t	se given credit.		
	(iii) There is no negative marking. All MCQs:	must be	e atten	ipted.		
	PART-I (MCQ3)(C	COMP	ULSO	(RY)		
1	(i) Select the best option/answer and fill in the appro	opriate	Box I	on the OMR	Answer	Sheet. (20x1=2
	(ii) Answers given anywhere else, other than OM	R Ansi	wer Sh	eet, will not be	consider	ed.
	What is the term for the process by which a cate	rpillar	becor	nes a butterfly	7	None of these
	(A) Fragmentation (B) Budding	(C)	Meta	morphosis		
	The monosaccharide which is readily absorbed t				endent o	None of these
	(A) Fructose (B) Glucose	(C)	Galac	tose	(D)	None of these
	The biodiversity at a geographic scale is called:	-		ar an agranda and gard	(D)	None of these
	(A) Beta diversity (B) Alpha diversity	(C)	Gami	na diversity		
	is the lag between the creation of the h	abitat	tragn	nent and the de	ecrease i	n species richn
	to the equilibrium level.	100	Water	Aller March	(D)	None of these
	(A) Fragment destruction (B) Relaxation time				(D)	None of these
-	Which co-enzyme is NOT involved in oxidative d		Biotin		(D)	None of these
	(A) CoA-SH (B) Mg ⁺⁺ The flexible rod along the dorsal midline in an er					None of these
			Of Che	bral column	(D)	None of these
	(A) Nerve chord (B) Sensory organs The pigment(s) that contain various forms of ito			orai column	(1)	None of mese
				AL& (B)	(D)	None of these
i.	(A) Myoglobin Prader-Willi syndrome is the heterozygous delet	inn in	long a	rm of chromo		
		(C)		im or cin omo	(D)	None of these
	(A) 5 Sympathetic and parasympathetic limbs of the	he An	tonon	ic Nervous S	vstem t	hat mostly w
).	opposite to each other are responsible for regulating body homeostasis by:					
	(A) Involuntary internal process	(B)	Invo	luntary external	process	
	(C) Voluntary internal process	(D)	None	of these		
3	Erythropoietin, a hormony is primarily produce	ed by		and is involve	d for RI	C production
	(A) Liver (B) Kidney	(C)	Leuk	ocytes	(D)	None of these
1	Most crustaceans have blue blood due to the pre					
	(A) Haemoglobin (B) Erythrocruorin	(C)	Haen	nocynine	(D)	None of these
2.	- [Hell Table - Table 2017]					
	(A) Fasciola hepatica (B) Nanophyteus	(C)	Schis	tosoma	(D)	None of these
	Which class do frogs and salamanders belong to					
	(A) Reptilia (B) Amphibia (C) Mammalia (D) None of these					
	Which type of biome has the highest annual prec					
	(A) Tropical rainforests (B) Grasslands		Tund	ra	(D)	None of these
	The evolution of ecologically related species is sometimes co-ordinated such that each species exer-					
	a strong selective influence on others. This is:					
	(A) Coexistence (B) Coevolution		(C)	Mutualism	(D)	None of these
	Which structure in fish helps them to maintain b	ouovar				
	(A) Swim bladder (B) Scales		(C)	Fins	(D)	None of these
7.	Which of the following statements is TRUE about	at anin				
	(A) Animals will derive their current behavior from past experiences					
	(B) Two animals of the same species will have exactly identical behavior					
	(C) Animals will behave in the same manner with all human beings (D) None of the					None of these
	Diurnal animals are those that are					
	(A) Active during the night and hide during the da	v	(B)	Active during	the day a	and hide at nigh
	(C) Active during dawn and dusk only			None of these		
9.	The portion of the digestive tract of a pigeon that p	roduc				ding young is t
	(A) Proventriculus (B) Gizzard			Crop	(D)	None of these
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- All of the following statements regarding "lung ventilation" and "gas exchange" are <u>TRUE</u> EXCEPT:
 - (A) Abdominal and thoracic air sacs are compressed by body muscles to move air through the respiratory system
 - (B) Gas exchange occurs in blind-ending sacs called alveoli
 - (C) Two respiratory cycles are required to move a volume of air through the respiratory system
 - (D) None of these

a. b.

c.

PART-II

- NOTE: (i) Part-II is to be attempted on the separate Answer Book.

 (ii) Attempt ONLY FOUR questions from PART-II. ALL questions carry EQUAL marks.

 (iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.

 (iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.

 (v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

 (vi) Extra attempt of any question or any part of the question will not be considered.
- (20)Differentiate between enzymes, co-enzymes, and co-factors in a biological cell. Q. No. 2. Describe with a flow chart which enzymes/co-enzymes take part in glycolysis and Kreb's Cycle. Explain the transcription and processing of mRNA in the nucleus. Describe in (20)Q. No. 3, detail the roles of mRNA, tRNA, and rRNA in polypeptide synthesis. Explain with diagrams the structure, synthesis, and functions of thyroid hormones. Describe hypo-and-hyper-thyroidism in detail. (20)Q. No. 4. (20)Differentiate between blood, plasma, and serum. Explain the various types and O. No. 5. sub-types of blood cells in mammals. What is immunity? Explain the roles of different types of lymphocytes in immunity. Discuss the economic and medical importance of ticks and mites of order Acari (20)Q. No. 6. to human well-being. What are the advantages of migration of birds? What are the major migratory O. No. 7. (20)routes of birds? How birds navigate? Q. No. 8. Write short notes on any TWO of the following: (10 each) (20)Mechanism of action of protein hormones

Leishmaniasis in human

Types of feathers in birds